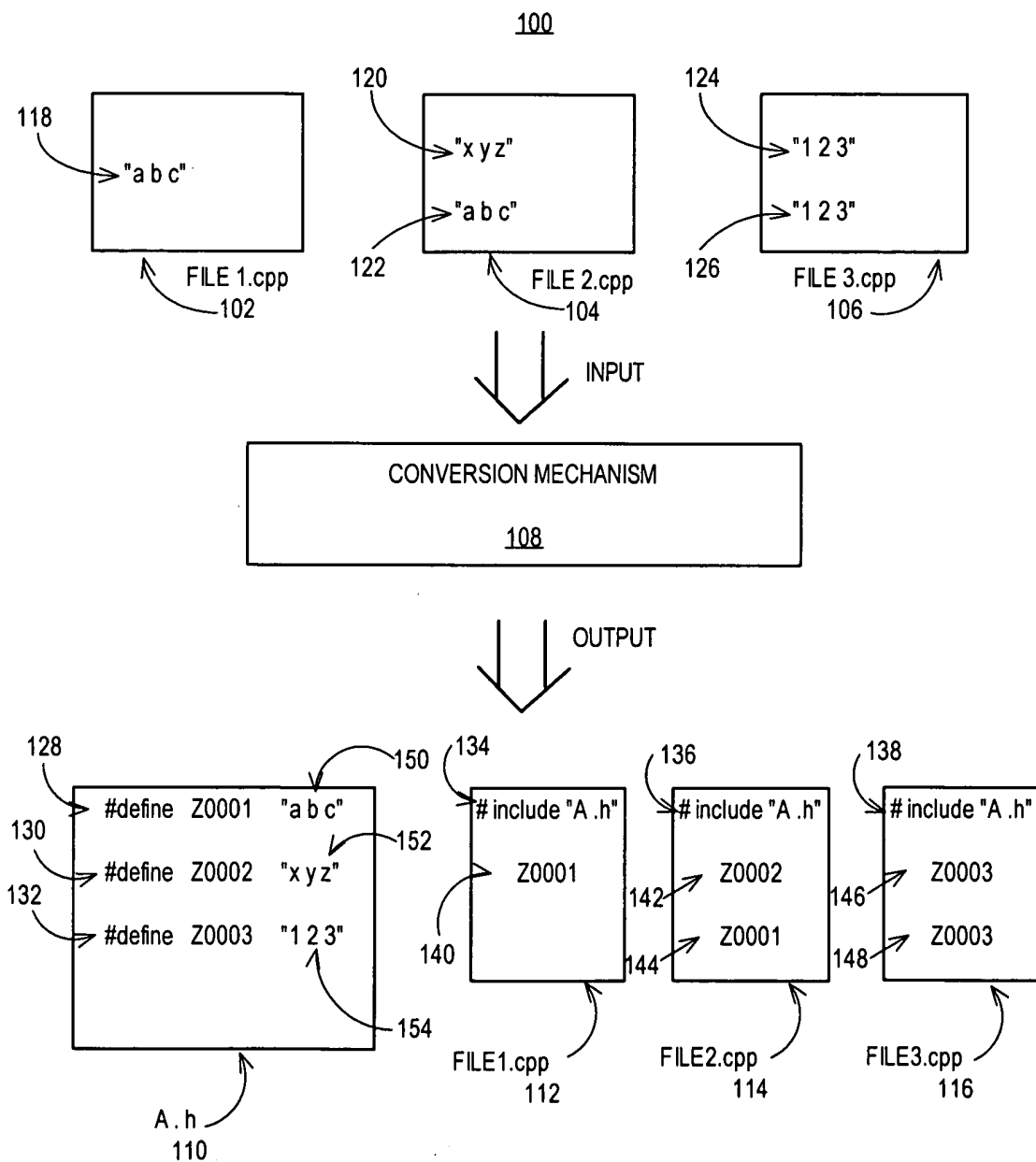


Fig. 1



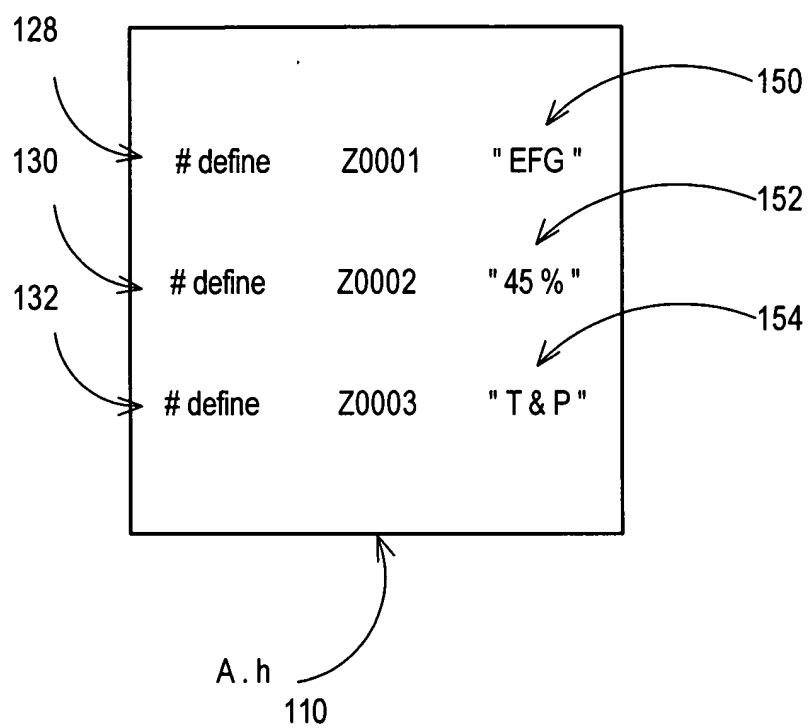


Fig. 3A

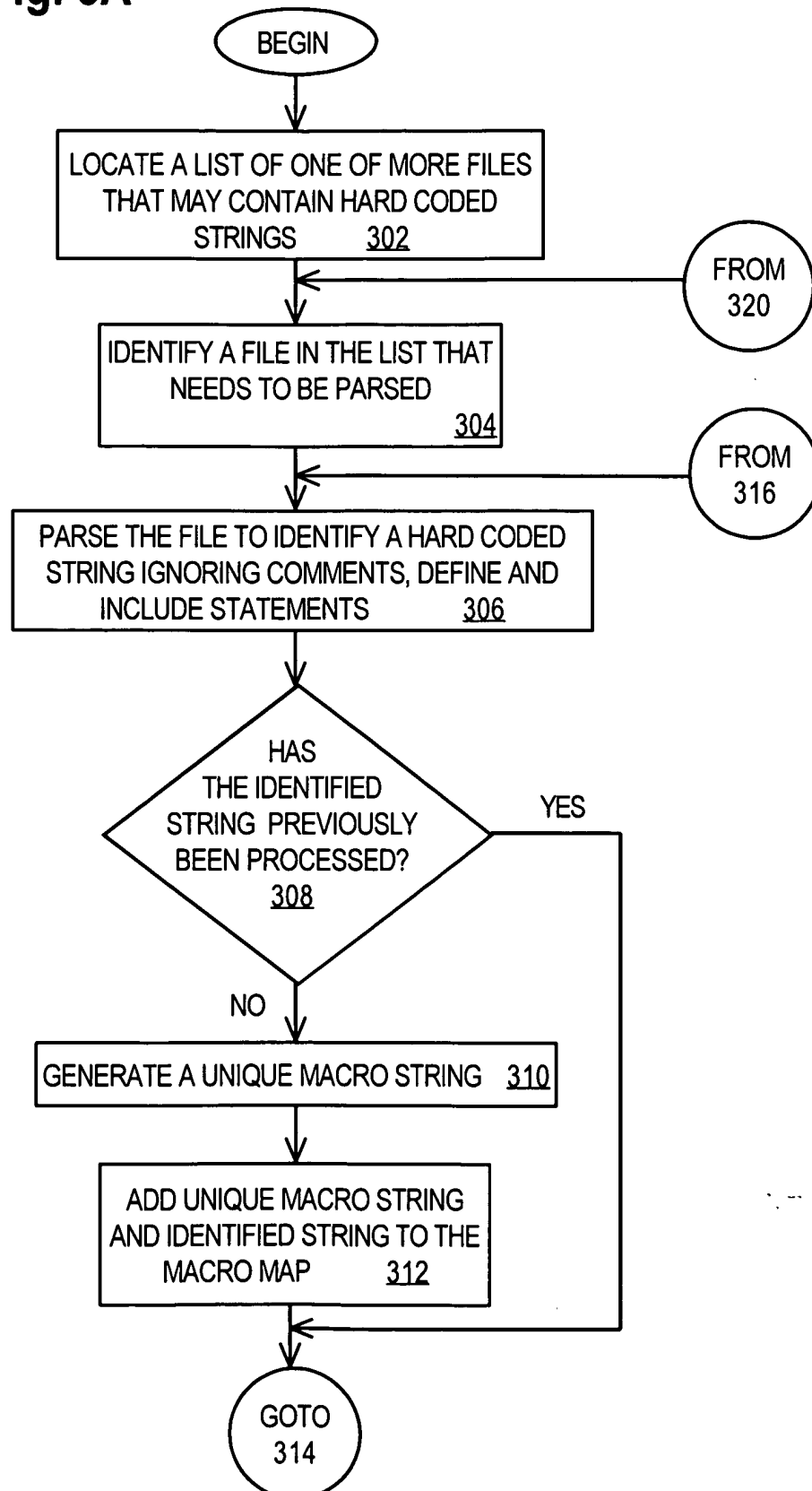


Fig. 3B

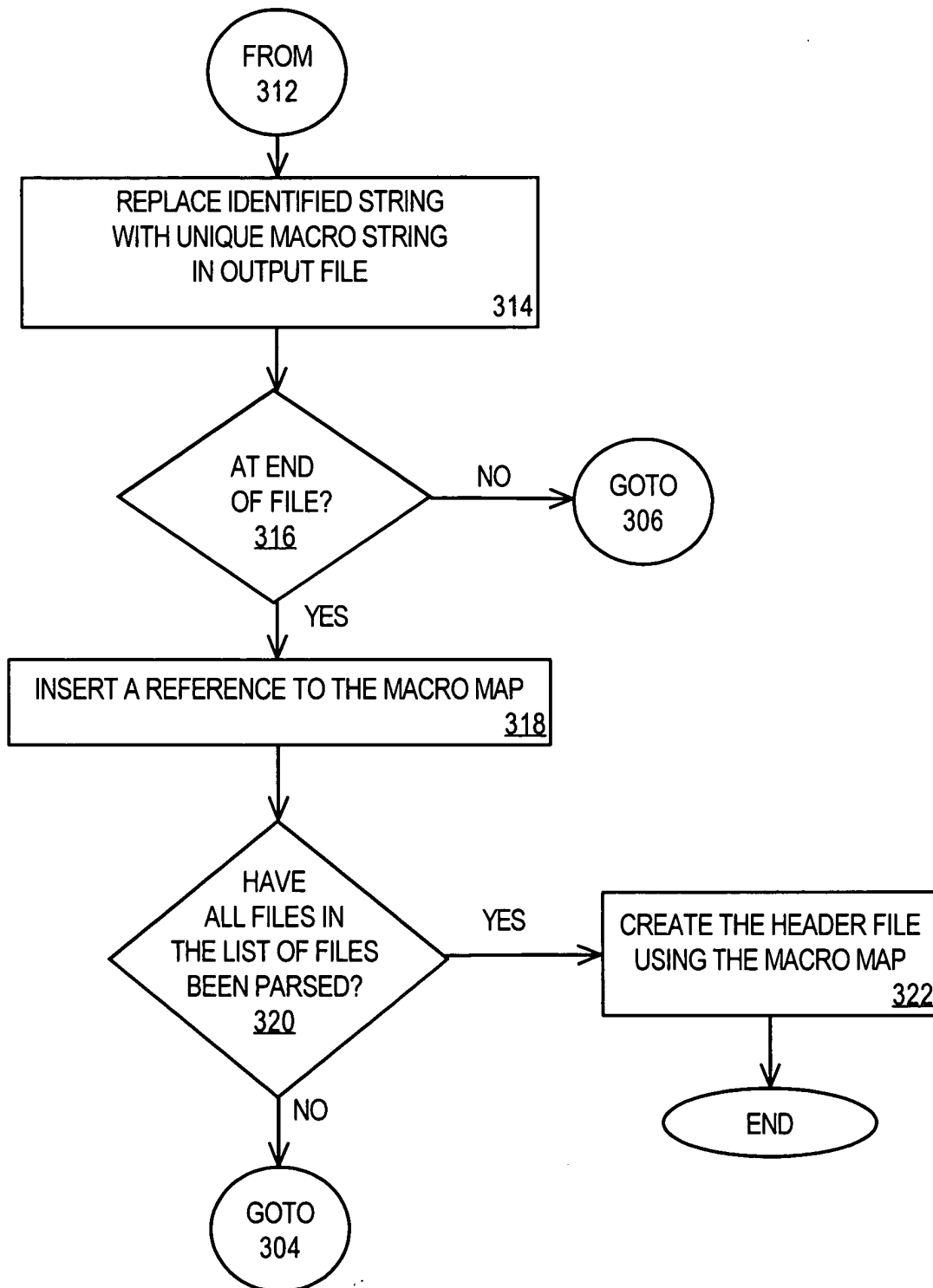


FIG. 4

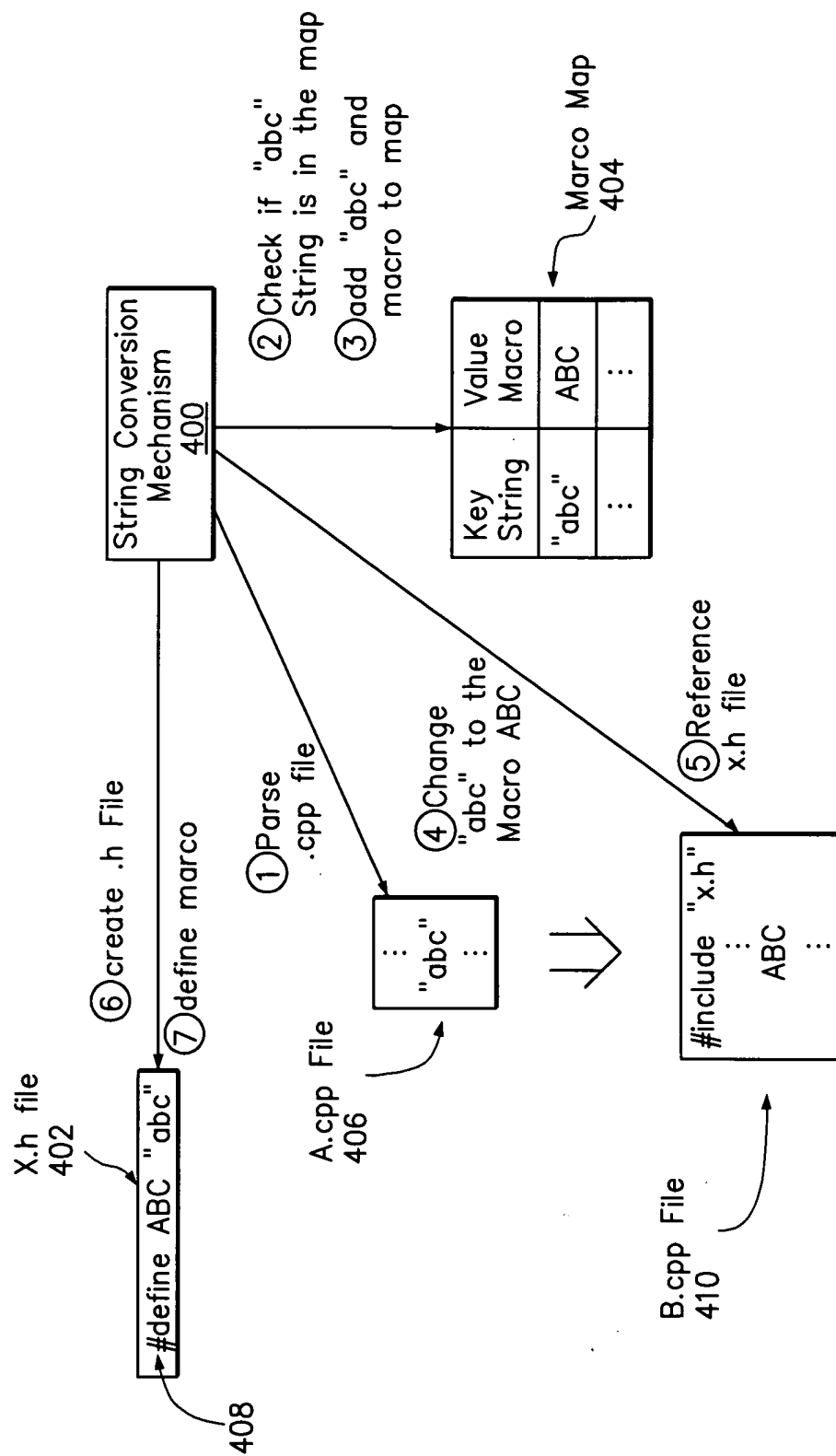


FIG. 5

<u>String Conversion System</u> <u>500</u>	
<p>Parser Module Functions: 1. Parses the .cpp file: —gets Tokens from the file; —ignores #include statements and comments. 2. Creates Macro for the string token. 3. Passes string and the macro to the Macro Map, cpp File Manager, h File Manager</p> <p>Attributes: Source code file list</p> <p>Classes: Scanner, Token, Parser <u>502</u></p>	<p>Source Code File Manager Module Functions: 1. Opens .cpp file. 2. Reads the file and passes chars to the Parser 3. Changes string to the Macro. 4. Checks for the #include statement. 5. Includes .h file if needed. 6. Closes .cpp file.</p> <p>Attributes: Source code file pointer</p> <p>Classes: Source Code File Manager <u>504</u></p>
<p>Macro Map Manager Manager Module Functions: 1. Checks if Macro is in the Map. 2. Adds string and the Macro to the Map.</p> <p>Attributes: Macro Map</p> <p>Classes: Macro Map Manager <u>506</u></p>	<p>Header File Manager Module Functions: 1. Creates .h file if needed. 2. Defines Marco in the .h file. 3. Closes the header file.</p> <p>Attributes: Header file pointer; header filename.</p> <p>Classes: Header File Manager <u>508</u></p>

FIG. 6A

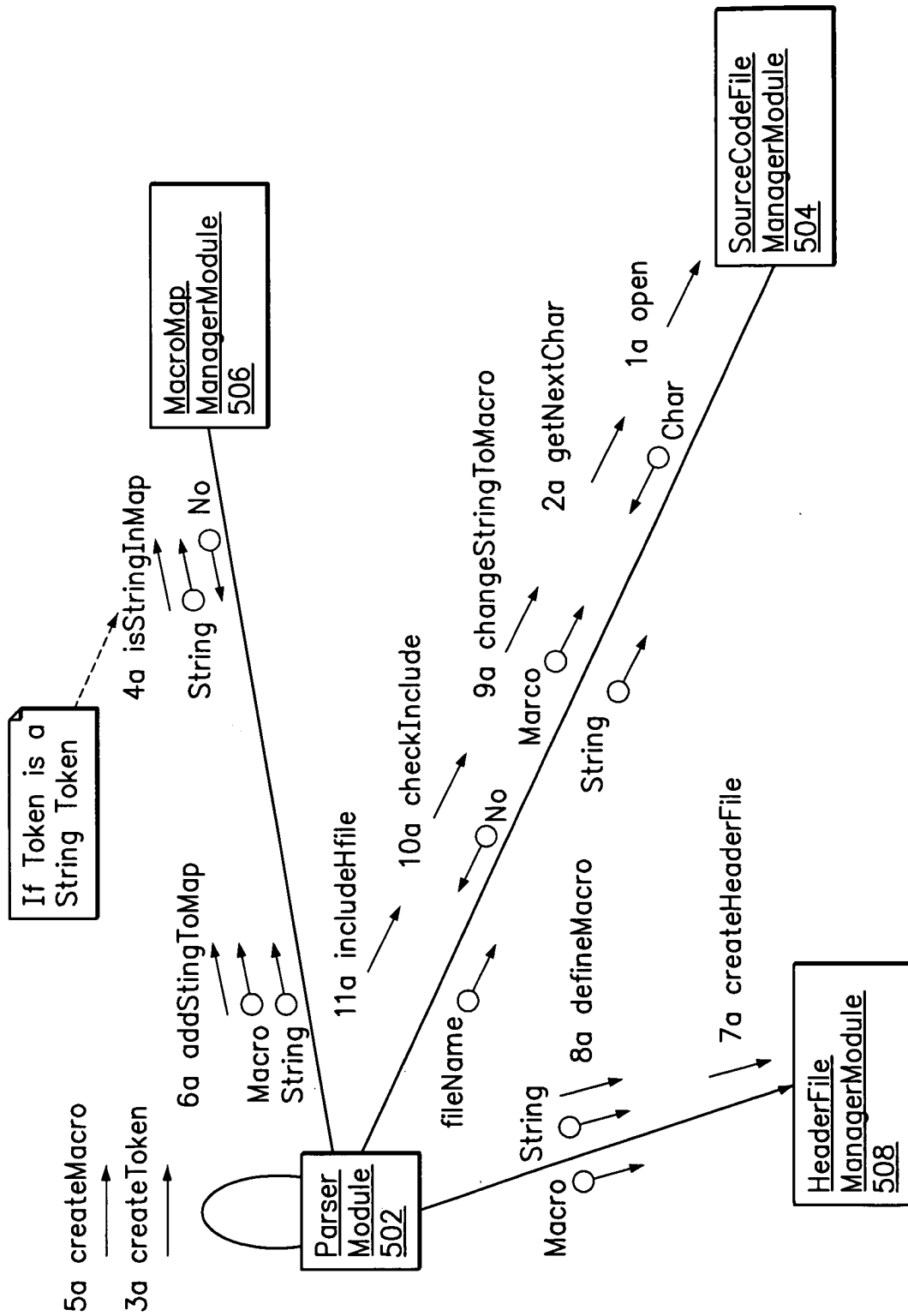


FIG. 6B

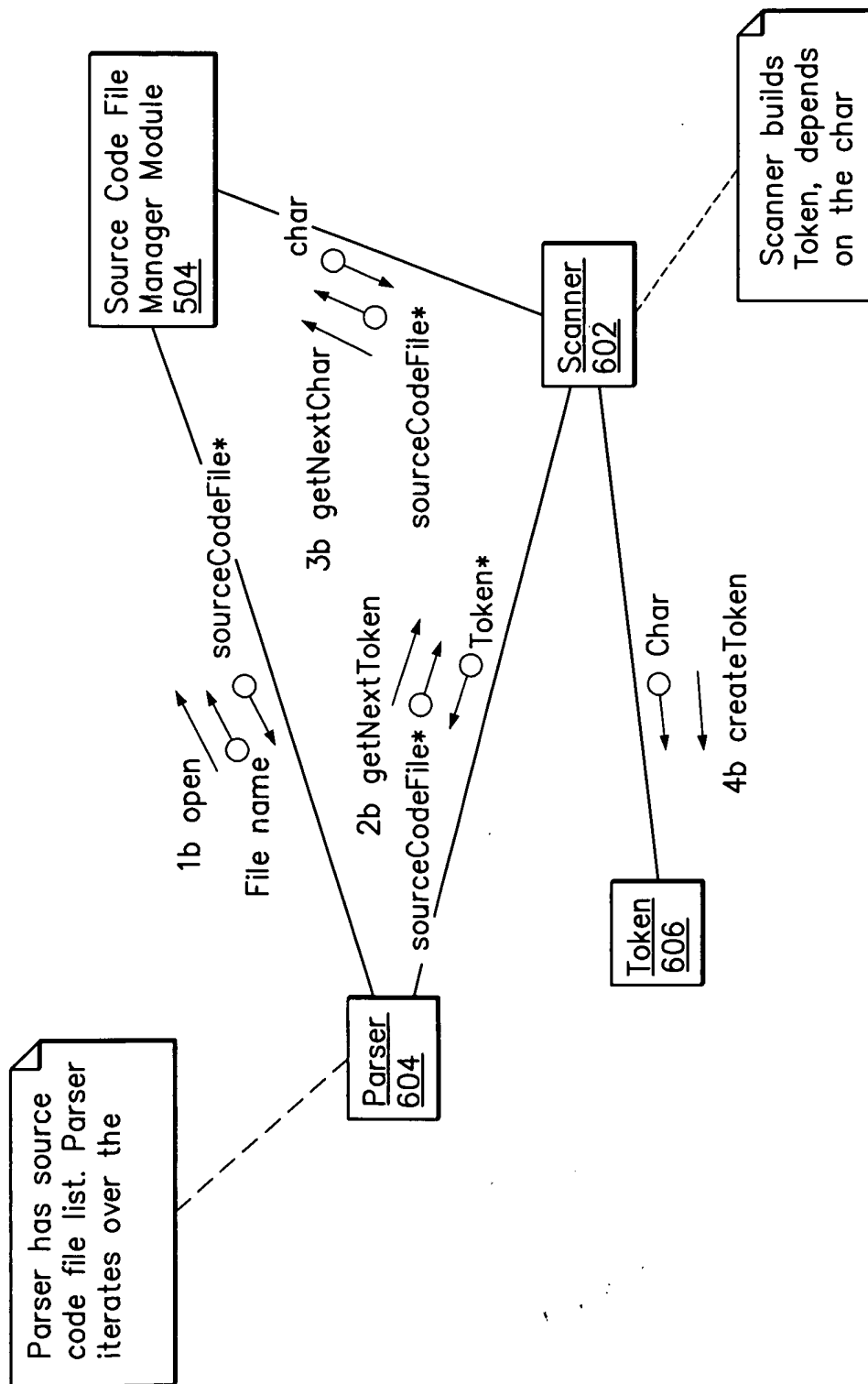


FIG. 6C

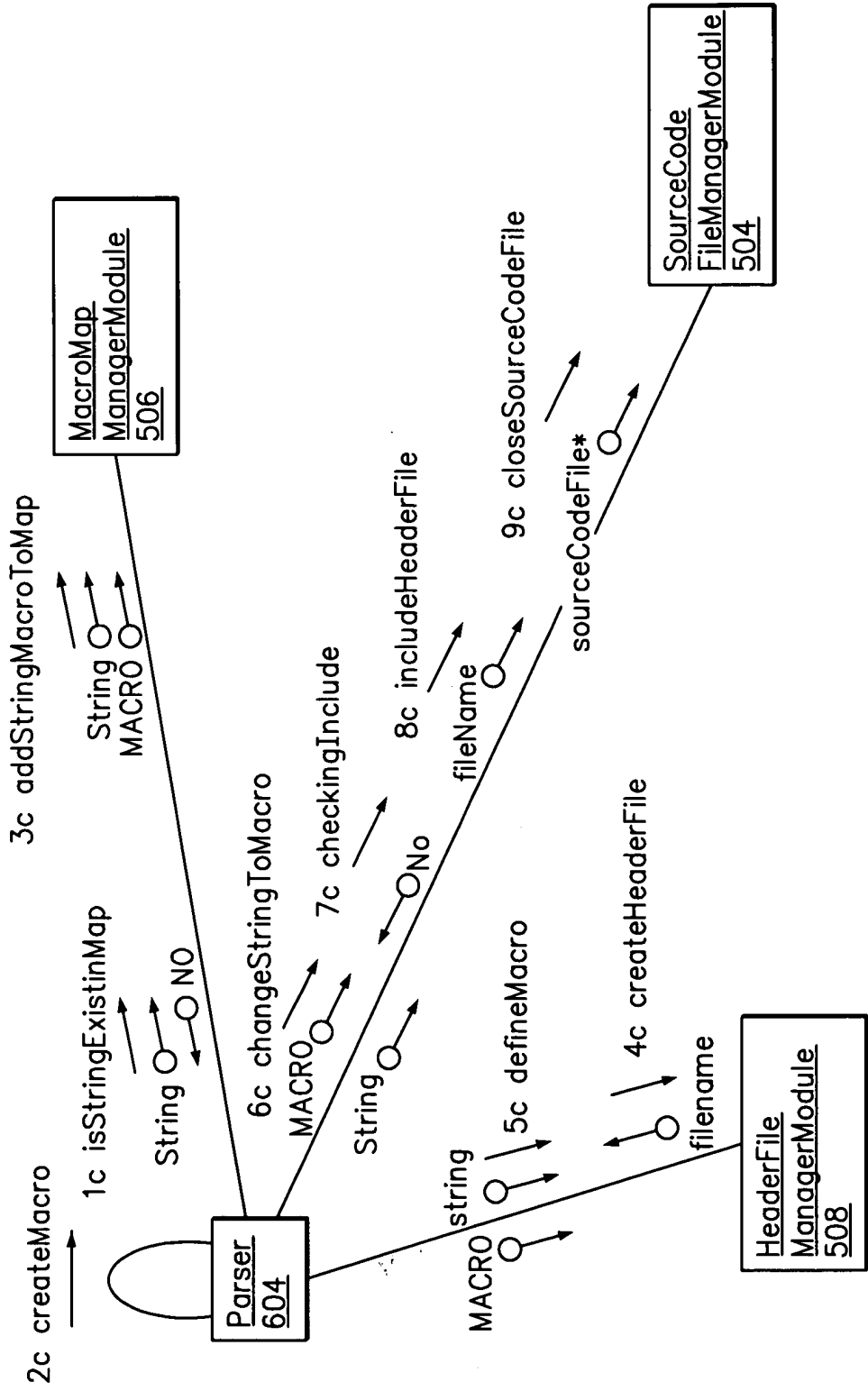


FIG. 7

